

SAVRANSKIY, K.Ye.; ~~MEZERITSE~~, A.B.

Thirty-ton pouring ladle with tilting mechanism. Lit. proizv.
no.8:16-17 Ag '62. (MIRA 15:11)
(Foundries—Equipment and supplies)

SAVRANSKIY, K.Ye.; MEZHERITSER, A.B.

Arrangement for the tilting of 85-100-ton capacity dumpcars.
TSvet.met. 36 no.2:88-91 F '63. (MIRA 16:2)
(Dumping appliances)

MEZHERITSKIY, A.D., inzh.

Some methods for reducing the water content of steam.
Energomashinostroenie 6 no.3:30-1. 1960. (MIRA 13:6)

(Steam)

KURZON, A.G., doktor tekhn. nauk, nauchn. red.; ROZENBERG, T.I.,
kand. tekhn. nauk, nauchn. red.; KNYAZEV, N.M., inzh.,
nauchn. red.; MEZHERITSKIY, A.D., inzh., nauchn. red.

[Marine gas turbines] Sudovye gazovye turbiny. Leningrad,
Izd-vo "Morskoi transport," 1961. 177 p. (MIKA 17:10)

1. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota (for Kurzon, Mezheritskiy).

MEZHERITSKIY, A.D.

Ventilation losses in reverse running gas turbines. Trudy TSNIMF
7 no.34:39-51 '61. (MIRA 14:8)

(Marine gas turbines)

(B6)

S/145/62/000/005/007/008
D262/D308

AUTHORS:

Mezheritskiy, A. D., Engineer, Rozenberg, G. Sh.,
Candidate of Technical Sciences

TITLE:

Some special features of operation of axial
and radial turbines in marine gas turbine units
with free piston gas generators

PERIODICAL:

Izvestiya vysshnikh uchebnykh zavedeniy.
Mashinostroyeniye, no. 5, 1962, 169-182

TEXT: In the case of axial turbines, the problems connected
with the reverse drive of the gas turbine unit are discussed, in
particular the problem of so-called "ventilation losses" in the
reversing part of the turbine during its forward drive. These
losses can be reduced and the turbine efficiency improved by
selecting a suitable (increased) blade pitch. This blade pitch
is calculated, and the final result is:

Card 1/3

S/145/62/000/005/007/008
D262/D308

Some special features...

$$\left(\frac{t}{b}\right) = \frac{4 [\sigma] w}{1^2 c_a \text{ av. } \rho \text{ av. } b} \sqrt{\frac{1}{4(c_{1u} - c_{2u})^2 + c_a^2 \text{ av. } \left(\frac{\sin^2 \beta_1 + \sin^2 \beta_2}{\sin^2 \beta_1 \sin^2 \beta_2}\right)}}$$

(t--pitch, c--chord, $[\sigma]$ --permissible bending stress, w--resisting moment of the blade, b--blade height, c_a , c_{1u} , c_{2u} --projections of the absolute velocity of gas, $\rho = \frac{\gamma}{g}$, γ --specific weight of gas, β_1 --geometric inlet angle, β_2 --geometric outlet angle). For radial turbines the following points are discussed: (1) Advantages of radial turbines and their applications. (2) Losses in the reversible radial turbines when reversing and the selection of suitable blade parameters. (3) The effect of the degree of re-

Card 2/3

S/145/62/000/005/007/008
D262/D308

Some special features...

action on the ratio $\frac{u_1}{C_0}$ (u_1 --peripheral velocity on the inside diameter of the wheel, C_0 --gas velocity). (4) Leakage losses through axial clearances and their effect on the stage efficiency. There are 5 figures and 1 table.

ASSOCIATION:

Tsentral'nyy nauchno-issledovatel'skiy institut
morskogo flota (Central Scientific and Research
Institute of the Marine Fleet)

SUBMITTED:

March 23, 1961

Card 3/3

3853²

S/114/62/000/006/004/006
E194/E155

26.8/80

AUTHOR: Mezheritskiy, A.D., Engineer

TITLE: Windage losses in a turbine stage

PERIODICAL: Energomashinostroyeniye, no.6, 1962, 29-32

TEXT: Existing empirical formulae for windage losses of turbine stages with both partial and complete delivery angle give results that differ by a factor of 5 to 10. The reason for this scatter is probably that the formulae do not allow for blade pitch, width, inlet and discharge angles, and radial and axial clearances. Accordingly, the influences of these factors on windage loss were studied over a wide range on a special rig. The rotor was driven by a d.c. motor calibrated for direct reading of torque. The tests were on a stage with unshrouded blading made by the Neva Works, Leningrad. Its mean stage diameter $D_{cp}=268$ mm, blade length $l = 42$ mm, inlet angle $\beta_1 = 32^\circ$, discharge angle $\beta_2 = 24^\circ$, and pitch = 13.11 mm on the mean diameter. Flow velocity charts plotted over the blade height at the inlet and discharge edges showed that about three quarters of the blade was occupied by a zone of reduced pressure in which the working substance was

Card 1/3 ○

Windage losses in a turbine stage

S/114/62/000/006/004/006
E194/E155

moving from the blade root towards the periphery under centrifugal force; on leaving the blade it circulated back from the tip to the root. The incident flow on the runner blade was at very high angles of attack. Having elucidated the nature of the flow, a study was made of the influence of the angle of installation of the runner blades, of the radial and axial clearances and of the blading pitch. Within the range of 91 to 107° the angle of installation has little effect on windage, probably because the flow path area changes together with the angle, but when $\beta_1 = \beta_2$ the windage loss is proportional to the sine of the angle of installation. The influence of other factors is presented graphically. Blade pitch had a particularly noticeable effect on the windage loss. In the light of the results the following formula is recommended for calculating windage losses in a turbine stage:

$$N'_B = 0.0035 D_{cp}^4 \ell (1 - \epsilon) \gamma \xi_a \xi_r^f (\sin \beta_2) \psi(t) / \left(\frac{n}{100} \right)^3 \text{ h.p.} \quad (4)$$

where: ϵ is the relative delivery angle; $\psi(t_{cp})$ is a factor

Card 2/3

Windage losses in a turbine stage S/114/62/000/006/004/006
E194/E155

which allows for the blading pitch and which ranges from 1 when the relative pitch t_{cp} is 12 mm to 2 when t_{cp} is 22 mm; ϵ_a and ϵ_r are factors which allow for the axial and radial clearances (numerical values are given for particular cases); $f(\sin \beta_2)$ is a factor which allows for the blade shape and which ranges from 0.8 when β_2 is 16° to 1 when β_2 is 37° ; γ is the specific gravity of the working substance, kg/m³. In the particular case when $\beta_1 = \beta_2$, formula (4) assumes the form:

$$\Delta_B = 0.013 v_{cp}^4 \ell (1 - \epsilon) \gamma \epsilon_a \epsilon_r \psi(t) \sin \beta \left(\frac{n}{100} \right)^3 \text{ h.p.} \quad (5)$$

Formulae (4) and (5) are both given in h.p. Since these formulae were obtained experimentally with a particular kind of blade they were used in making calculations of four other kinds of blade. The results are tabulated and show that the calculated values are in good agreement with experiment. There are 6 figures and 2 tables.

Card 3/3

MEZHERITSKIY, A.D.

New ships equipped with gas-turbine plants with a free-piston gas generator. Inform. sbor. TSNIIMF no.73. Tekh. ekspl. mor. flota no.13: 63-66 '62.

(MIRA 16:3)

(Marine gas turbines)

KURZON, A.G., doktor tekhn. nauk; MEZHERITSKIY, A.D., kand. tekhn. nauk

Principal characteristics of power plants of merchant ships
on underwater wings and prospects for the use of gas turbines
on these ships. Inform. sbor. TSNIIMF no.101.Tekh. ekspl.
mor flota no.25:21-50 '63. (MIRA 17-9)

KURZON, A.G., doktor tekhn.nauk; MEZHERITSKIY, A.D., kand.tekhn.nauk

Selecting the optimum design power of a back stroke turbine.
Sudostroenie 29 no.5:18-21 My '63. (MIRA 16:9)
(Marine turbines)

L 03407-67

ACC NR: AT6022414 (N)

SOURCE CODE: UR/2752/65/000/068/0075/0081

AUTHOR: Mezheritskiy, A. D. (Candidate of technical sciences)

ORG: None *

TITLE: Effect of turbocompressor efficiency on the volumetric efficiency of an engine

SOURCE: * Leningrad. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota. Trudy, no. 68, 1965. Tekhnicheskaya ekspluatatsiya morskogo flota (Technical operation of the merchant marine), 75-81

TOPIC TAGS: turbosupercharged engine, compressor design, turbine compressor

ABSTRACT: The author considers the effect of a reduction in the pressure of scavenging air and compressor efficiency on the volumetric efficiency of engine cylinders. It is assumed that the excess air factor is constant. An expression is derived for the temperature of the supercharged air in terms of the pressure increase in the compressor and curves are given showing the weighting factors in this expression as functions of the degree of pressure increase. Formulas are derived for determining the temperature of the gas at the turbine input, the adiabatic temperature drop in the turbine and the temperature of the gas at the turbine outlet. When supercharging pressures are greater than 1.6 kg/cm^2 the effect of compressor efficiency on volumetric efficiency of the engine is slight under ordinary operating conditions and need not be taken into account. Orig. art. has: 3 figures, 1 table, 20 formulas.

SUB CODE: 13/ SUBM DATE: None/ ORIG REF: 003

Card 1/1

UDC: 621.438:621.515

ACC NR: AT6034792 (N) SOURCE CODE: UR/2914/66/000/043/0077/0090

AUTHOR: Mezheritskiy, A. D. (Candidate of technical sciences); Shun'gin, Yu. A.

ORG: none

TITLE: Analysis of the performance of ATL-N5 turbosuperchargers

SOURCE: Leningrad. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo flota. Informatsionnyy sbornik, no. 42(152), 1966. Tekhnicheskaya ekspluatatsiya morskogo flota voprosy nadezhnosti sudov i ikh silovyykh ustanovok (Technical operation of the Merchant Marine; problems of reliability of ships and their power systems), 77-00

TOPIC TAGS: marine engine, marine equipment, turbosupercharger engine, ship, turbosupercharger/ATL-N5 supercharger, Herlitz engine, "Andizhan" type ship

ABSTRACT: The authors discuss in detail the operation of the ATL-N5 turbo-supercharger produced in East Germany and widely used on Soviet ships of the "Andizhan" type. The design, operation, function of the bearing parts and cooling system are described. The influence of the performance characteristics of the

Curu 1/2

UDC: 621.438.515.015.001.36

ACC NR: AT6034792

turbosupercharger on the capacity of the ship's power plant and on the overall heat release rate of the engine is discussed. The labor required for repairs and servicing is analyzed. In conclusion, the authors rate the ATL-N5 turbosupercharger for Herlitz engines as undependable for failure to meet a number of technical specification and high cost of operation and servicing. The authors suggest a number of improvements to raise the overall efficiency of the ATL-N5 turbosupercharger. Orig. art. has: 2 figures and 6 tables. [GC]

SUB CODE: 10, 13/SUBM DATE: none/

Card 2/2

ACC NR: AP6035726

(A)

SOURCE CODE: UR/0413/66/000/019/0086/0086

INVENTOR: Kasimov, R. G.; Kirichenko, I. D.; Livshits, S. Ya.; Mezheritskiy, A. M.;
Fomichev, A. V.; Chirtsov, V. I.; Yudin, S. M.

ORG: none

TITLE: Method of extracting mercury from tailings. Class 40, No. 186706

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 86

TOPIC TAGS: mercury, mining engineering, metal extracting, *electrolysis*

ABSTRACT: To raise the yield and sanitary work conditions for mercury extraction by nitric acid and electrolysis, the electrolysis is carried out in a solution containing 230—260 gram/liter of mercury and 20—40 gram/liter of nitric acid and using a nonsoluble anode and a mercuric cathode; the anode and cathode current densities are 300—450 and 450—600 amp/m², respectively. [WA-96]

SUB CODE: 08,11,16/SUBM DATE: 30Dec64/

Card 1/1

UDC: 669.791.3:541.135.21

ACC NR: AP6035726

(A)

SOURCE CODE: UR/0413/66/000/019/0086/0086

INVENTOR: Kasimov, R. G.; Kirichenko, I. D.; Livshits, S. Ya.; Mezheritskiy, A. M.;
Fomichev, A. V., Chirtsov, V. I.; Yudin, S. M.

ORG: none

TITLE: Method of extracting mercury from tailings. Class 40, No. 186706

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 19, 1966, 86

TOPIC TAGS: mercury, mining engineering, metal extracting, *electrolysis*

ABSTRACT: To raise the yield and sanitary work conditions for mercury extraction by nitric acid and electrolysis, the electrolysis is carried out in a solution containing 230—260 gram/liter of mercury and 20—40 gram/liter of nitric acid and using a nonsoluble anode and a mercuric cathode; the anode and cathode current densities are 300—450 and 450—600 amp/m², respectively. [WA-96]

SUB CODE: 08,11,16/SUBM DATE: 30Dec64/

Card 1/1

UDC: 669.791.3:541.135.21

PROMKIN, Nikolay Fedorovich, kand. tekhn. nauk.; GRIBOV, S.M., inzh., retsenzent.;
MEZHERITSKIY, V.I., inzh., red.; KUZNETSOVA, A.G., izd. red.;
ZUDAKIN, I.M., tekhn. red.

[Broaching heat-resistant and titanium materials] Protivagivanie
zharoprochnykh i titanovykh materialov. Moskva, Gos. izd-vo obor.
promyshl., 1958. 169 p. (MIRA 11:11)

(Metal cutting)
(Heat resistant alloys)
(Titanium alloys)

DOROFYENKO, G.N.; KRIVIN, S.M.; PETRENITSKIY, V.V.

Perchloric acid and its compounds as catalysts in organic synthesis.
Part 21: Triphenyl pyrylium salts with functional substituents in
aromatic rings. Zhur. ob. khim. 35 no.4:631-634 Apr '66. (MIRA 18:5)

1. Rostovskiy-na-Donu gosudarstvennyy universitet.

MEZHEROVSKIY, A-B

4723. VTI FURNACE WITH SCRAPER BAR. Filatov, An and Meshherovskii, AB. (4a Ekon. Topliva (Fuel Econ.), Aug. 1950, 17-20). An illustrated description of an illustration, similar to that in FA 1950, no. 7, 3257, in which a scraper bar moves from front to back of a fixed grate and vice versa, spreading coal as it goes. There is a subsidiary low level "lighting up" grate at the front which ensures the maintenance of combustion overunheated air.. The scraper bar is water cooled. (L)

100-513 METALLURGICAL LITERATURE CLASSIFICATION

MEZHETSKIY, B.V.; TIBABSHEV, A.I.

Construction, repair, and testing of remote-control thermometers.

Elek. i topl. tiaga 2 no.2:42-43 P '58.

(MIRA 11:4)

(Thermometers) (Diesel locomotives)

51-4 -1-15/16

AUTHORS: Rezaev, V. I. and Mazhetskii, R.

TITLE: Investigation of the Intensity and Width of Combination Scattering Lines of Benzene and Carbon Disulfide.
(Issledovaniye intensivnosti i shiriny liniy kombinatsionnogo rasseyaniya benzola i serougleroda.)

PERIODICAL: Optika i Spektroskopiya, 1974, Vol.IV, No.1, p. 97-100 (1974)

ABSTRACT: Theoretical calculation of the Raman line intensities for benzene and carbon disulfide by Whiffen (Ref.1), and for carbon disulfide by Vol'kenshteyn (Ref.2). Experimental measurements of intensities of ν_1 and ν_2 lines are reported in several papers. For comparison of theory with experiment the present authors measured integral intensities of ν_1 and ν_2 lines by a photoelectric method using a narrow spectral slit, when line shapes are not distorted. Measurements are made on a diffraction spectrometer $\Delta\Phi C-4$, following

Card 1/4 the method described earlier (Refs.3, 4). The results

51-4 -1-1/10

Investigation of the Intensity and Width of Combination Scattering Lines of Benzene and Carbon Disulfide.

spectrum was excited with a low-pressure lamp at room temperature. Benzene spectrum was excited with 4358 Å line. The results are shown in Fig. 1. The region round 3047 cm^{-1} line was studied separately, using 4047 Å excitation. The latter results are shown in Fig. 4. CS_2 spectrum was excited using the 4358 Å line. In the CS_2 spectrum the authors studied fully-symmetrical vibrations with 656 cm^{-1} frequency (Fig. 1) and the harmonic of deformation vibration at 196 cm^{-1} (Fig. 2). The lines in each group were separated by a graphical method, on the assumption of symmetry of their shapes. In the 641-656 cm^{-1} group an additional component with a Card 2/4 frequency of about 653 cm^{-1} was observed. The true

1-4-1967

Investigation of the Intensity of Raman Combination Scattering
Lines of Benzene and Carbon Disulfide

line with ν_2 and ν_3 intensities I_2 and I_3 were
intensity I_1 and I_2 are given in Table 1.
Each of the benzene lines was measured 10 times, and
each of the CS_2 lines 6-7 times. The error in
the quantities reported in Table 1 are estimated to
be about 10%. Comparison of the benzene line
intensities (Table 1) shows that the quantities I_1
and I_2 agree satisfactorily
with published values of other authors
(refs. 11, 12, 13). The experimental values of the
line intensities of various authors differ
somewhat, with it being also that the experimental
values for ν_2 and ν_3 reported by the present

Card 3/4 authors agree well with theoretical values. The

Inv. of Benzene and Carbon Disulphide. Combination Scattering
Lines of Benzene and Carbon Disulphide.

authors thank A.A. Mikhlin for advice and interest.

There are 4 figures, 2 tables and 16 references.

which are Russian, 5 English, 1 Italian and 1 French.

ASSOCIATION: Moscow State University. (Moskovskiy gosudarstvennyy universitet.)

SUBMITTED: March 15, 1957.

AVAILABLE: Library of Congress.

1. Benzene-Scattering lines-Theory
2. Carbon disulphide-Scattering lines-Theory

Card 4/4

MEZHEUMOV, F., inzh.; ZEL'DIS, M., inzh.; ONISHCHENKO, V., inzh.

Automation of the washing and drying of passenger cars. *Avt. transp.* 39
no.1:16-20 Ja '61. (MIRA 14:3)
(Automobiles—Maintenance and repair)

MEZHEV, Yu. I., (Grad Stud)

Dissertation: "An Experimental Investigation of Vibration in Metal Turning Depending on the Conditions of Operation." Cand Tech Sci, Moscow Order of Lenin Aviation Inst imeni Sergo Ordshonikidze, 22 Jun 54. (Vechernyaya Moskva, Moscow, 11 Jun 54)

SO: SUM 318, 23 Dec 1954

MEZHEVALOVA, A. G.

MEZHEVALOVA, A. G.--"The Treatment of Tuberculosis of the Larynx with
Juglone Preparation (Juglone) (Clinical-Experimental Investigation)."
Kishinev State Medical Inst. 2nd Medical Faculty, Kishinev, 1956.
Kishinev, 1956.
(Dissertation for the Degree of Candidate in Medical Sciences).

SO: Knizhnaya Letopis' No 9, 1956

USSR/Pharmacology, Toxicology. Various Preparations

V-6

Abs Jour : Ref Zhur - Biol., No 5, 1958, No 23388

Author : Mazhevalova A.G.
Inst : Kishinev Agricultural Institute
Title : Yuglone in an Animal Experiment

Orig Pub : Tr. Kishinevak. s. kh. in-ta, 1956, 11, 37-46

Abstract : Yuglone [5-oxy-1.4 - naphthoguinone] was administered subcutaneously to mice in the form of a 4.1 - 0.5% solution in peach oil. Yuglone's toleration dose was 0.04 mg/g, the toxic - 0.05-0.09 mg/g, the minimum lethal dose was 0.1-1mg/g. Experiments on guinea-pigs and rabbits, infected with human tubercular bacilli demonstrated that the use of yuglone did not prevent the development of tuberculosis, but slowed the process and decreased the intoxication severity.

Card : 1/1

MEZHEVALOVA, A.G., kand. med. nauk; REUTT, Ye.S.; KRYUKOVA, Ye.I.

Effect of the "regenerator" hyaluronic acid preparation in skin diseases. Vest. dermat. i ven. 33 no.2:59-60 Apr-May '59. (MIRA 12:7)

1. Iz klinicheskoy bolitsy (nach. - prof. G.M. Novikov).
(HYALURONIC ACID, ther. use,
skin dis. (Rus))
(SKIN DISEASES, ther.
hyaluronic acid (Rus))

Author: Denisov, Ye. P.; Shchegolev, V. E.; Koshavich, A. M.
Rumsh, M. A.

TITLE: Analysis of the energy composition of x-ray photoemission
from a bulky cathode

SOURCE: Fizika tverdogo tela, v. 6, no. 9, 1964, 2569-2573

TOPIC TAGS: x ray emission, x ray spectrum, photoemission, cathode,
K band, L band

ABSTRACT: The purpose of the investigation was to separate the
parts connected with the K, L, Auger, and secondary electrons from
the total photoemission, and to compare the relative number of elec-
trons in each group with the corresponding coefficients in the formu-
la for the quantum yield. To this end, the method of spherical
capacitor was used to study the energy composition of the x-ray pho-

Card 1/2

L 12645-65

ACCESSION NR: AP4044922

toemission for ²⁷aluminum, ²⁷chromium, ²⁷titanium, and ²⁷iron photocathodes. The setup used was described by two of the authors (Rumsh and Shchemelev, FTF v. 5, 71, 1963). A graphic procedure for separating the various components is described. The results confirm the validity of the equation derived previously by the Rumsh and Shchemelev (ZhETF v. 42, 727, 1962) for the quantum yield of the external photoeffect. "The authors thank Academician A. A. Lebedev for interest in the work and for a discussion of the results." Orig. art. has: 3 figures, 1 formula, and 1 table.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet (Leningrad State University)

SUBMITTED: 28Nov63

ENCL: 00

SUB CODE: OP, SS

NR REF SOV: 008

OTHER: 000

Card 2/2

MEZHEVICH, F.Ye., inzh., izobretatel'

Automobile trains for impassable roads. Izobret. rats. no. 5:5-6
Je '62. (MIRA 15:6)
(Ground-effect machines)

LIPGART, A.A., doktor tekhn.nauk, prof., zaslushennyy deyatel' nauki i tekhniki RSFSR; GRISHIN, M.D.; SEMITSKIY, Ya.S.; MEZHEVICH, I.Ye., rza.; KORMILITSYN, A.M.; MALINOVSKIY, G.S., master sporta, sud'ya respublikanskoy kategorii

Makers of automobiles. Tekhn. 31 no.9:12-15 '63. (MIRA 16:9)

1. Zamestitel' direktora nauchno-issledovatel'skogo avtomotornogo instituta (for Lipgart). 2. Chlen yuridicheskoy komissii pri Sovete Ministrov SSSR (for Grishin). 3. Predsedatel' sektsa avtomototurizma Gosudarstvennogo mekhanicheskogo zavoda, Odessa (for Semitskiy). 4. Rukovoditel' ekspertnoy gruppy po avtomobil'nomu transportu Gosudarstvennogo komiteta po delam izobreteniy i otkrytiy pri Sovete Ministrov SSSR (for Mezhevich). 5. Nachal'nik Gosudarstvennoy Avtomobil'noy inspeksii RSFSR (for Kormilitsyn). 6. Chlen Komiteta po kartingu Tsentral'nogo avtomotornogo kluba Dobrovol'nogo doma sodeystviya armii, aviatsii i flotu SSSR (for Malinovskiy).

(Automobiles—Design and construction)

SERAFTIMOV, L. A.; TIMOFEYEV, V. S.; BALASHOV, M. I.; MEZHEVICH, G. V.

Solubility in the systems isobutyraldehyde - n. butyraldehyde -
water - toluene and cyclohexanol - cyclohexanone - cyclohexene -
water. Izv. vys. ucheb. zav.; khim. i khim. tekhn. 5 no.5:722-
726 '62. (MIRA 16:1)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
Lomonosova, kafedra tekhnologii osnovnogo organicheskogo
sinteza.

(Systems(Chemistry)) (Solubility)

MEZHEVICH, V.I.; OLESHKEVICH, V.I.

Use of methylene blue in severe carbon monoxide poisoning.
Zdrav.Bel. 8 no.5:54-55 My '62. (MIRA 15:10)
(CARBON MONOXIDE--PHYSIOLOGICAL EFFECT)
(METHYLENE BLUE)

KOPIT, B.S.; MIKHAYLOV, A.V.; CHLENOV, A.F.; IDOV, P.I.; YUKHNOV, I.I.;
TSARSKIY, S.V.; BARAUSOV, V.A.; PETROV, A.I.; LIFSHITS, L.Z.;
ABATUROV, K.I.; SOKOL'SKAYA, Zh.M.; MEZHEVICH, Y.N.; DAVYDOV,
L.I.; VLASIKHIN, A.V.; CHEKALOV, L.N.; STARICHKOV, T.I.;
KHUBLAROV, A.Ye., red.; PITERMAN, Ye.L., red.isd-va; PARAKHINA,
N.L., tekhn.red.

[Our beacons; collection of articles on progressive workers in
lumber, paper, woodworking industries and forestry] Nashi maiaki;
sbornik ocherkov o peredovykh lyudiakh lesnoi, bumazhnoi i derevo-
obrabatyvaiushchei promyshlennosti i lesnogo khoziaistva. Moskva,
Goslesbumizdat, 1961. 125 p. (MIRA 15:2)
(Forests and forestry) (Wood-using industries)

MEZHEVICH, Ye.I., otv. za vypusk,; KHITROV, P.A., tekhn. red.

[Safety regulations for the operation of the contact line network of direct-current electric railroads] Pravila bezopasnosti pri ekspluatatsii kontaktnoi seti elektrifitsirovannykh zheleznykh dorog postoiannogo toka. Izd. 2., perer. Moskva, Gos. transp. zhel-dor. izd-vo, 1958. 143 p. (MIRA 11:11)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye elektrifikatsii i energeticheskogo khozyaystva.

(Electric railroads--Wires and wiring)

(Electric railroads--Safety measures)

BELYAYEV, I.A., insh.; MEZHNEVICH, Ye.I., insh.

Automatic signaling of a dead contact network section. Elek.
1 topl. tiaga 2 no. 12:22-24 D '58. (MIRA 12:1)
(Electric railroads--Wires and wiring)
(Electric railroads--Signaling)

KOLESNIKOV, I.S.; SOKOLOV, S.N.; MEZHEVIKIN, N.I.

Basic variants of the veins in the superior lobe of the right lung and some problems in segmental resections of the lung in connection with disorders of the venous outflow. Grud.khir. 3 no.6:62-69
N-D '61. (MIRA 15:3)

1. Iz kafedry gosspital'noy khirurgii Voenno-morskoy ordena Lenina akademii (VMOLA) imeni S.M. Kirova (nach. - prof. I.S. Kolesnikov) i kafedry operativnoy khirurgii Voenno-morskoy ordena Lenina akademii imeni S.M. Kirova (nach. - chlen-korrespondent AMN SSSR prof. A.N. Maksimenko).
(LUNGS--SURGERY) (PULMONARY VEIN)

KOLESNIKOV, I. S.; SOKOLOV, S. V.; MEZHEVIKIN, N. I.

Basic variations in the segmental arteries of the upper lobe of the right lung as applied to segmentectomies. Grud. khir. no.4:61-65 '61. (MIRA 14:12)

1. Iz kafedry gosspital'noy khirurgii (nach. - chlen-korrespondent AMN SSSR prof. A. N. Maksimenkov) Voenno-meditsinskoy ordena Lenina akademii imeni S. M. Kirova.

(PULMONARY ARTERY--SURGERY) (LUNGS--BLOOD SUPPLY)

KOLECNIKOV, I.S.; YERMOLOV, V.R.; SEMENOV, A.N.; MELNIKOV, N.I.

Resection of the basal segment of the ...
no.5:26-91 ...

1. Iz kafedry gospiatologii i meditsiny (natsionalnaya ...
Kirova. ...
Klinika gospiatologii i meditsiny ...
Lenina akademii.

KOLLEKTOR, I.S., 1966; FLETCHER, W.L.; GILBERT, J.L., 1972; ANDERSON, L.H.

Respectfully,
72 no. 411-21 AG 104 (10/1/2021)

[illegible]

MEZHEVIKIN, V.

RYZHOV, I.; MEZHEVIKIN, V., mashinist kombayna; USOV, A., mashinist kombayna.

Using combines in mining steeply inclined coal seams. Mast.ugl.3
no.10:13-14 0 '54. (MLRA 7:12)

1. Nachal'nik uchastka shakhty im. Buzantseva kombinata
Stalinugol'.
(Coal-mining machinery)

BRDLIK, P.M.; MEZHEVNIKOV, B.S.

Unsteady thermal conditions in water-covered roofs. Inzh.-fiz.
zhur. 8 no.2:263-267 P '65. (MIRA 18:5)

1. Institut stroitel'noy fiziki, Moskva.

BRDLIK, P.M., kand. tekhn. nauk; MEZHEV, N.K., inzh.

Calculating thermal properties of water covered roofs. Izv.
strel. 42 no.3:42-45 '65. (MIRA 18:7)

L 18526-63

EPA/EWT(m)/BDS

AEDG/AFETC/ASD/AFGC

Paa-4

ACCESSION NR: AR3002959

S/0273/63/000/005/0002/0002

SOURCE: RZh. Dvigateli vnutrennego sgoraniya. Otdel'nyy vypusk, Abs. 5.39.7

AUTHOR: Mezhevov, A. M.

TITLE: Closed cycle gasoline engine ²³

59

CITED SOURCE: Tr. Leningr. tekhnol. in-ta tsellyulozno-bum. prom-sti, vyp. 10, 1962, 129-134

TOPIC TAGS: gasoline engine, closed cycle, triatomic gas, diatomic gas, efficiency, thermal capacity, horsepower

TRANSLATION: A gasoline engine was converted into a closed cycle system and a study was made to evaluate the principal thermodynamic characteristics of its operation and to determine the dependence of the output power on the specific fuel consumption. The closed cycle was compared to the ordinary high speed combustion system with the following results: when nitrogen in air is replaced by carbon dioxide, the volume of the residual gases increases in proportion to the decrease in combustion temperature; the coefficient of volumetric expansion of the residual gases is about 8.2%; the cycle temperature and pressure decrease

Card 1/2

L 18526-63

ACCESSION NR: AR3002959

(because of the higher thermal capacity and entropy level of a triatomic gas as compared to a diatomic gas); and the engine horsepower and indicated mean pressure of the cycle decrease only slightly (1-2%). Compared to the diatomic working gas, the indicated efficiency of a triatomic gas (after the substitution of carbon dioxide for nitrogen) decreases by about 20 to 25% in direct proportion to the increase in thermal capacity of the latter. Oxygen consumption per indicated horsepower increases in proportion to the decrease in the indicated engine efficiency.

DATE ACQ: 17Jun63

SUB CODE: FL

ENCL: 00

Card 2/2

MEZHEVOV, A.M., kand. tekhn. nauk

Closed cycle of a gasoline engine. Trudy LTITSBP no.10:129-
134 '62. (MIRA 16:8)

(Internal combustion engines—Testing)

112-57-7-14903

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 7, p 157 (USSR)

AUTHOR: Nikol'skiy, L. N., and Mezhevoy, Yu. T.

TITLE: Method for Determining Amplitude-Frequency Characteristics of Electrical Equipment Used for Recording Dynamic Processes in Machines and Installations (Metod opredeleniya amplitudno-chastotnykh kharakteristik elektro-apparatury, primenyayemoy dlya registratsii dinamicheskikh protsessov v mashinakh i sooruzheniyakh)

PERIODICAL: Tr. Bezhitsk. in-ta transp. mashinostr., 1955, Nr 13, pp 107-111

ABSTRACT: An electromechanical generator is used for electric oscillations. It consists of a disk rotating at various speeds and provided with sinusoidal teeth and a console plate with pasted-on wire tenso-pickups.

F. Ye. T.

Card 1/1

1. The following information was obtained from the
rank, 2nd Lt., 10th Cavalry, 1st Cavalry Division.

Matthias J. ...
for the ...
12-13-64.

1. Bryar ...

MEZHEVSKAYA,

POLAND/Microbiology - Medical and Veterinary
Microbiology

F-6

Abs Jour : Ref Zhur-Biologiya, No 1, 1954, 238
Author : Parnas, Teyle, Kozlyak, Mezhevskaya
Inst :
Title : On the Reaction of Agglutination and
Complement Fixation in Complex Diagnosis
of Brucellosis.
Orig Pub : Ann. Univ. M. Curie-Sklotowska, 1954
(1954), D8, 89-100
Abstract : No abstract.

Card 1/1

MEZHEVSKIY, V. M.

MEZHEVSKIY, V. M. -- "Methods of Increasing Interest in History and the Effect of This Interest on the Quality of the Pupils' Knowledge."
Academy of Pedagogical Sciences RSFSR. Sci Res Inst of Psychology.
Moscow, 1956.
(Dissertations for the Degree of Candidate in Pedagogical Sciences).

JO: Knizhnaya Letopis', No 9, 1956

KOMKOVA, A.I.; FEDOROVA, N.A.; MEZHEYEVSKIY, T.

Phosphoprotein phosphatase from a hog's spleen. Biokhimiia 28 no.3:
482-485 My-Je '63. (MIRA 17:2)

1. Laboratory of Protein Chemistry, State University, Leningrad.

1. BRIGADY

Use good for litter. Methodi pered.op. v sel'khoz. 7 no. 134-35 '57.
(MLRA 10:9)

1. Brigada torfodebyvayushchey brigady uchebnogo khozyaystva
na izobrazhenii sel'skokhozyaystvennogo tekhnika.
(litter (bedding)) (Peat)

SOV/89-6-5-12/33

21(4)

AUTHOR: Mezhiborskaya, Kh. B.

TITLE: Radioactivation Assaying of Beryllium (Radioaktivatsionnoye opredeleniye berilliya)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Nr 5, p 567 (USSR)

ABSTRACT: For 5 years (γ, n)-reaction has been used for the assaying of beryllium, and this method was found to be fully efficacious. Sb^{124} was used as γ -source. Two kinds of analysis were used: a) direct counting of the neutrons produced, b) activation of an indium detector. For variant a) the device SSh-5 is used, in which a proportional counter of the type SNM (filled with BF_3 , enriched B^{10}) is used. If a 200-300 mC γ -source is used, an indicating-sensitivity of $\sim 0.001\%$ Be is obtained with a weighed-in portion of ~ 200 g. Assaying takes 10-20 min. For variant b) a ~ 2 C source is inserted into a container in the interior of which a paraffin block is fitted. The weighed-in portion may vary between 5 and 100 g. The weight of the disk-shaped indium detector is ~ 25 g. The sample and the indium are irradiated for 45 min. The activities produced are measured by means of a γ -scintillation counter. With a weight of the

Card 1/2

Radioactivation Assaying of Beryllium

SOV/89-6-5-12/33

sample of 5 g, BeO-determination may be carried out with an accuracy of up to $\sim 0.015\%$. For tests carried out in the laboratory, variant a) was found to be more satisfactory; in this case the sample and the paraffin layer are arranged so as to be coaxial. If this method is employed for elements with a large capture cross section for thermal neutrons, the samples and the standard preparation with 3, 8, and 15 mm thickness are measured, and herefrom extrapolation is carried out as to the "zero thickness" of the sample. There are 1 table and 3 references, 1 of which is Soviet.

SUBMITTED: December 12, 1958

Card 2/2

MEZHIBORSKAYA, Kh.B.; SHASHKIN, V.L.; SHUMILIN, I.P.; PCHELINTSEVA, G.M.,
red.; VLASOVA, N.A., tekhn.red.

[Analysis of radioactive ores by the β and γ method] Analiz radio-
aktivnykh rud β - γ -metodom. Moskva, Izd-vo Glav.uprav.po ispol'-
sovaniu atomnoi energii pri Sovete Ministrov SSSR, 1960. 63 p.
(MIRA 13:10)

(Radioactive substances) (Beta rays) (Gamma rays)

MEZHIBORSKAYA, Kh.B.

Radiocactivation method of determining beryllium in mineral
raw materials and hydrometallurgy products. Zhur.anal.khim.
15 no.3:281-286 My-Je '60. (MIRA 13:7)
(Beryllium—Analysis)

MEZHIBORSKAYA, Khaisa Borisovna; PCHELINTSEVA, G.M., red.; VLASOVA, N.A.,
tekh. red.

[Photoneutron method for the determination of beryllium] Foto-
neitronnyi metod opredeleniia berillia. Moskva, Gos. izd-vo lit-ry v
oblasti atomnoi nauki i tekhniki, 1961. 50 p. (MIRA 14:7)
(Beryllium—Analysis) (Neutrons)

MEZHIBORSKAYA, KH B.

PHASE I BOOK EXPLOITATION SOV/5592

Vsesoyuznoye soveshchaniye po vnedreniyu radioaktivnykh izotopov i yadernykh izlucheniyy v narodnom khozyaystve SSSR. Riga, 1960.

Radioaktivnyye izotopy i yadernyye izlucheniya v narodnom khozyaystve SSSR; trudy Vsesoyuznogo soveshchaniya 12 - 16 aprelya 1960 g. Z. Riga, v 4 tomakh. t. 4: Poliski, razvedka i razrabotka poleznykh iskopayemykh (Radioactive Isotopes and Nuclear Radiation in the National Economy of the USSR; Transactions on the Symposium Held in Riga, April 12 - 16, 1960, in 4 volumes. v. 4: Prospecting, Surveying, and Mining of Mineral Deposits), Moscow, Gostoptekhizdat, 1961. 284 p. 3,640 copies printed.

Sponsoring Agency: Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov SSSR. Gosudarstvennyy komitet Soveta Ministrov SSSR po ispol'zovaniyu atomnoy energii

Eds. (Title page): N. A. Petrov, L. I. Petrenko, and P. S. Savitskiy; ed. of this volume: M. A. Speranskiy; Scientific ed.: M. A. Speranskiy; Executive Eds.: N. N. Kuz'mina and A. G. Ionel'.

Card 1/11

Radioactive Isotopes and Nuclear (Cont.)

SOV/1992

development of radioactive methods used in prospecting, surveying, and mining of ores. Individual reports present the results of the latest scientific research on the development and improvement of the theory, methodology, and technology of radiometric investigations. Application of radioactive methods in the field of engineering geology, hydrology, and the control of ore enrichment processes is analyzed. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:

Aleksbeyev, P. A. Present State and Future Prospects of Applying the Methods of Nuclear Geophysics in Prospecting, Surveying, and Mining of Minerals 5

Bulashkevich, Yu. P., G. M. Voskoboynikov, and L. V. Mazyukin. Neutron and Gamma-Ray Logging at Ore and Coal Deposits 19

Gordeyev, Yu. I., A. A. Mukher, and D. M. Srebrodol'skiy. The

Card 3/11

Radioactive Isotopes and Nuclear (Cont.)	SOV/5192	
Problems		133
Zolotov, A. V. Critical Dimensions of an Artificial Bed for the Simulation of Radioactive Methods of Borehole Investigation		133
Schulov, M. M., A. P. Chkur, A. A. Fedorov, A. Ya. Bol'shakov, and P. P. Krutov. Application of the Method of Scattered Gamma Radiation for the Investigation of Ore Holes		136
<u>Konoborskaya, K. B.</u> Radioactivation (Photoneutron) Method for Determining Beryllium		137
Yacubson, K. I. On the Possibility of Activation by Fast Neutrons Under Borehole Conditions		137
Sen'ko, A. K. Photoneutron Method of Prospecting, Explication, and Sampling of Beryllium Ores		143
Abdullayev, A. A., Ye. M. Lobanov, A. P. Novikov, and A. A. Card 7/11		

AUTHOR:

TITLE:

PERIODICAL:

Mezhiborskaya, Kh. B.
Radioactivation (photoneutron) method of determining
beryllium

S/081/61/000/024/025/06
B138/B102

TEXT: The apparatus Φ HM-2 (FNM-2) is described, which is designed for the photoneutron method of determining beryllium in undressed mineral and in the products of hydrometallurgical processing. Sb124 is used as the γ source, with the test specimen and moderator coaxially with it. The neutron detector is a boron moderate components of the specimen; restricting the size of the polation to the zero layer and the internal standard of sensitivity of the method is 0.001 - 0.002% Be. Analysis takes 10 to 15 min. Root-mean-square Be concentration of 10^{-3} and $3 \cdot 10^{-3}$ for BeO concentrations of 20 and 30%. Card 1/2 10% for BeO concentrations of 20 and 30%.

S/081/61/000/024/025/06
B138/B102

AUTHOR: Mezhiborskaya, Kh. B.

TITLE: Radioactivation (photoneutron) method of determining beryllium

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 24, 1961, 149, abstract 24D51 (Sb. "Radioakt. izotopy i yadern. izlucheniya v nar. kh-ve SSSR, v. 4", M., Gostoptekhizdat, 1961, 154 - 156)

TEXT: The apparatus Φ HM-2 (FNM-2) is described, which is designed for the photoneutron method of determining beryllium in undressed minerals and in the products of hydrometallurgical processing. Sb^{124} (100 μ curies) is used as the γ source, with the test specimen and moderator arranged coaxially with it. The neutron detector is a boron counter. Methods have been developed for excluding the effect of neutron absorption by other components of the specimen: restricting the size of the sample, extrapolation to the zero layer and the internal standard method. The sensitivity of the method is 0.001 - 0.002% BeO for a 100 g sample. Analysis takes 10 to 15 min. Root-mean-square error is 15 - 20, 10 - 15 and 3 - 10% for BeO concentrations of $\sim$ 0.001, 0.01 and $>$ 0.01% respectively.
Card 1/2

Radioactivation (photoneutron)...

S/081/61/000/024/025/086
3138/B102

[Abstracter's note: Complete translation.]

Card 2/2

MEZHIBORSKAYA, S.; MOSHKOVICH, Ye.

New developments in extending credit to commerce. Den.1 kred.
14 no.1:27-32 Ja '56. (MLRA 9:5)
(Credit)

MEZHIBORSKAYA, S.

Features in the planning of credit for trade, marketing, and supply
organisations. Den. 1 kred. 17 no.1:73-81 Ja '59. (MIRA 12:4)
(Credit)

MATVEYEV, G.; MEZHIBORSKAYA, S.

Improve the procedure for supplying credit to trade organizations.
Den.i kred. 19 no.10:35-43 0 '61. (MIRA 14:10)
(Credit) (Retail trade)

BARKOVSKIY, N.D.; CHERNYSHOVA, T.A.; MORSIN, V.I.; VSESVYATSKAYA,
N.V.; ~~MEZHIBORSKAYA, S.B.~~; MISEYUK, K.A.; BORCZDIN, B., red.;
NADEZHDINA, A., red.; TELEGINA, T., tekhn. red.

[The organization and planning of credit] Organizatsiia i plani-
rovanie kredita. Moskva, Gosfinizdat, 1962. 298 p.

(MIRA 16:3)

(Credit)

MATVEYEV. G.; MEZHIBORSKAYA, S.

Improve the establishment of norms for working capital in
commerce. Den. 1 kred. 21 no.12:20-26 D '63.

(MIRA 17:1)

MEZHIBORSKAYA, V.M., kand.med.nauk

Early differential diagnosis of hemorrhagic meningoencephalitis and alcoholic intoxication. Vrach.delo no.10:122-123 O '60. (MIRA 13:11)

1. Kafedra nervnykh bolezney (zav. - deystvitel'nyy chlen AMN SSSR, prof. B.N.Man'kovskiy) Kiyevskogo meditsinskogo instituta imeni akademika Bogomol'tsa.
(ENCEPHALITIS)
(ALCOHOLISM)

VAYNSHTOK, I.B., kand.med.nauk; MEZHIBORSKAYA, V.M., kand.med.nauk

Development of a liking for nembutal and barbamy1. Vrach. delo
no.12:132-133 D '60. (MIRA 14:1)

1. Kafedra nervnykh bolezney (sav. - akademik AMN SSSR, prof.
B.N.Man'kovskiy) Kiyevskogo meditsinskogo instituta.
(BARBITURATES)

14
MEZHIBORSKYI, M.B.

[Diseases of the heart; causes, treatment, and prevention] Khvoroby
sertsia; prychny, likuvannia, zapobigannia. Kyiv, [Derzhmedvydav] 1946.
30 p. (MIRA 11:10)

(HEART--DISEASES)

1. MEZHIBORSKIY, P.
2. USSR (600)
4. Pipe
7. Technical and economic indexes of asbestos cement and cast iron pipes.
Ahlil.-kom. khoz. 2 No. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

MEZHIBORSKIY, P.M.

[Hydraulic calculation tables for asbesto-cement water pipes] Tablitsy dlia
gidravlicheskogo rascheta asbestotsementnykh vodoprovodnykh trub. Moskva,
Gos.izd-vo lit-ry po stroitel'stvu i arkhitekture, 1953. 30 p.

(MLRA 6:7)

(Hydraulic engineering--Tables, calculations, etc.)

MEZHIBORSKIY, P.M., inzhener.

Tables for hydraulic calculations of pipelines. Gidr.stroi. 22 no.5:40-
41 M '53. (MLBA 6:6)
(Pipe)

MEZHIBORSKIY, P.M.

"Tables and nomograms for the hydraulic calculation of plastic
pipes" by M.M.Sapozhnikov and others. Reviewed by P.M.Mezhiborskiy.
Vod. i san. tekhn. no.2:40 F '62. (MIRA 15:2)
(Pipe, Plastic) (Sapozhnikov, M.)

MEZHIBORSKIY, Petr Markovich; VOLOSHCHENKO, Z.N., red.; LEUSHCHENKO,
N.L., tekhn. red.

[Tables for hydraulic calculation of pressure reinforced
concrete water pipes] Tablitsy dlia gidravlicheskogo ras-
cheta napornykh zhelezobetonnykh vodoprovodnykh trub. Kiev,
Gosstroizdat USSR, 1963. 117 p. (MIRA 17:2)

MEZHIBOVSKIY, A., instruktor zvukovogo kino (Moscow).

Motion-picture projector reeler with two pulleys for parallel belt action.
Kinomekhanik no.9:72 S '53. (MLA 6:9)

(Moving-picture projectors)

MEZHIBOVSKIY, R.

Moving-picture Projectors

Connecting two amplifying devices for parallel work.
Kinomekhanik no. 12, 1952

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

PA - 2415

AUTHOR
TITLE

MEZHIBOZHSKIY M.Ya., cand.tech.sc., SOKOLOV I.A., eng.
Rise of Open-Hearth Bath Temperature in the case of Blowing
in Compressed Air. (Povysheniye temperatury martenevskoy vannы
pri vduvaniі sshotogo vozdukha. Russian)

PERIODICAL

Stal' 1957, Vol 17, Nr 3, pp 220-227 (U.S.S.R.)
Received: 5/1957

Reviewed: 5/1957

ABSTRACT

The calculation of the heat effects of the reactions on the occasion of the oxidation of carbon were previously given; up-to-date thermochemical constants were more widely used and relatively exact quantitative data on the influence of air blowing into the open-hearth bath at a rise of the temperature of the metal were obtained by means of a perfected apparatus. The results of theoretical calculations were given i.e. on the oxidation of carbon by gaseous oxygen, on the heating of the trough in connection with this process, and on the cooling effect of additions of ore and calcium. The experimental results are then dealt with. The temperature measurements of the metal by means of a thermo-element showed that a much more intense rise of temperature occurs when compressed air is blown into the open-hearth bath than is the case of usual boiling. The rate of the temperature rise

CARD 1/2

MEZHIDOVA, N. M., KOSOVIN, I. L., SAKHINOVA, N. P., MITROKHIN, V. A.

"Two types of leptospirosis found in the Chechen-Ingush ASSR."

Doklady Akad. Nauk SSSR, 1979, 247: 100-102. (English transl. in: Journal of Parasitological Problems and Diseases with Natural Food, 1979, October 1980), Moscow-Leningrad, 1979, Academy of Medical Sciences USSR and Academy of Sciences USSR, V. 1, 200 p.

Inst. of Epidemiology and Microbiology, AMS USSR/ Moscow
and REPUBLIC Sanitary-Epidemiological Station of the Checheno-Ingush ASSR

04270

15.9300

2105.12.1960

S/138/60/000/006/007/00
A051/A029

AUTHORS: Bel'skaya, Yu.R., Zateyev, V.S., Mezhevikovskiy, S.M.

TITLE: The Effect of Certain Factors on the Resistance of a Punched Seam

PERIODICAL: Kauchuk i Rezina, 1960, No. 6, pp. 47 - 52.

TEXT: The results of work carried out on the investigation of effects caused by various factors on the mechanical resistance of the seam in rubber articles are listed. The effects of the physical and chemical factors were studied in addition to factors associated with the type and shape of the punched seam on the resistance of the rubber plate. The mechanism of the formation of the seam is explained from the point of view of the autohesion theory. It is shown that the processes which take place during punching confirm the diffusion nature of the autohesion of high polymers. The optimum conditions for punching of the articles are determined, which are produced from natural rubber plus CKB (SKB)-based calendered rubber. Factors affecting the resistance of the seam were divided into three groups: 1) factors connected with the physical state of the polymers;

Card 1/3

84290

S/38/60/000/006/007,008
A051/A029

The Effect of Certain Factors on the Resistance of a Punched Seam

extent of pressure of the punch on the plate, the rate of punching, the punching temperature, etc; 2) factors associated with the type and shape of the punch seam; 3) factors changing the chemical composition of the polymers or affecting their chemical bonds. The method used for punching and the temperature of the punch do not affect the resistance of the seam. It was established that the resistance of the punch seam depends on the position of the seam relative to the direction of the calendering of the plate. With an increase in the caliber the resistance of the seam increases, reaching its maximum at 1.50 mm. The cause of this phenomenon is still undetermined. The seams were also subjected to stretching. It can be seen from Table 8 that the optimum condition appeared at a tension of 15% during vulcanization. It was found that the highest resistance of the seam was achieved with the application of zinc stearate powder, the lowest with talc. The effect of the plasticity of the mixture on the quality of the seam was investigated, with the results shown in Figure 6. Further articles will be published on the subject of selecting the most suitable composition of the rubber mixture based on different rubbers which would

Card 2/3

34290

S/138/60/000/006/007/008
A051/A029

The Effect of Certain Factors on the Resistance of a Punched Seam

ensure the best conditions for diffusion of the polymer macromolecules during the punching process. There are 6 figures, 9 tables and 5 references. 4 Soviet and 1 English.

Card 3/3

MEZHIKOVSKIY, S.M. [Mezhykovs'kyi, S.M.]

Effect of the formula of the rubber compound on the mechanical
Strength of stamped seams. Khim. prom. [Ukr.] no.18-10 Ja-M'88
(MIRA 1787)

MEZHIKOVSKIY, S.M. [Mezhykovs'kyi, S.M.]

Types, grades and defects of natural rubber used in international trade. Khim. prom. [Ukr.] no.3:85-87 J1-S '63. (MIRA 17:8)

VASIL'YEV, A. (Kiyev); MEZHINSKIY, Yu. (Kamensk-Rostovskiy)

Simple method for making a cone. Radio no. 6.51 Je '63.
(MIRA 16 7)

(Loudspeakers)

MEZHIRITSKIY, B.L.

Our practice in diamond grinding of cutting tools. Mashinostreitel'
no.7:31 J1 '65. (MIRA 18:7)

MEZHIRITSKIY, L.M.

Regulating the accounting for petroleum products on tank farms.
Transp. i khran. nefti i nefteprod. no.7:18-20 '64.
(MIRA 17:8)

1. Moskovskoye upravleniye Glavnogo upravleniya po transportu i
snabzheniyu nef't'yu i nefteproduktami RSFSR.

11(5)

PHASE I BOOK EXPLOITATION

SOV/2642

Mezhiritskiy, Leonid Mikhaylovich

Priyemo-sdatchik neftebazy (Petroleum Bulk Plant Receiving and Delivering Attendant) 2d ed., rev. and enl. Moscow, Gostoptekhizdat, 1958. 238 p. 4,500 copies printed.

Exec. Ed.: K. P. Svyatitskaya; Tech. Ed.: E. A. Mukhina.

PURPOSE: This book is intended for the personnel of petroleum bulk plants and terminals. It may be also used as textbook for training bulk plant staff members who receive and deliver petroleum products.

COVERAGE: The book offers the information essential for the day-to-day work of personnel of petroleum bulk plants and terminals who handle the reception and delivery of petroleum products. It describes bulk plant equipment and operations, petroleum product storage, transportation, loading, and unloading, and gives the specifications of various petroleum products. Planning of a petroleum bulk plant and the distribution of equipment over its territory is described and illustrated. Petroleum containers, tank cars, tank trucks, tankers and their equipment, as well as pipelines, are also reviewed.

Card ~~1/6~~

Petroleum Bulk Plant Receiving and Delivering (Cont.)

SOV/2642

Considerable attention is paid to measuring operations, prevention of petroleum product losses, fire precautions, safety measures, and petroleum product registration and recording. The book contains numerous illustrations, tables and designs of equipment used for petroleum product storage, measurement, and transportation. It also shows samples of accounting and registration records. No personalities are mentioned. There are 12 references, all Soviet.

TABLE OF CONTENTS:

Ch. I. Petroleum and Its Utilization	3
Ch. II. Significance of Petroleum Bulk Plants and Prospects for Their Expansion	
Importance of bulk plants for the national economy	7
Brief information on transportation and storage of petroleum products	7
Possibilities of developing petroleum product storage and transportation techniques	8

Card 2/8

BIRKENFEL'D, K.G.; MEZHIRITSKIY, L.M.; CHERNIKIN, V.I.

Studying finned double-pipe heat exchangers. Trudy MNI no.23:
150-157 '58. (MIRA 12:1)

(Heat exchangers)

SAKOVICH, V., inzh.; MEZHIRITSKIY, Yu. [Mezhyryts'kyi, IU.], inzh.;
MINTS, G. [Mints, H.], inzh.

Dismountable flange fittings for steel forms for making
reinforced concrete construction elements. Bud.mat.i konstr.
2 no.1:59 F '60. (MIRA 13:6)

(Concrete construction—Formwork)

AUTHOR: Mezhistrov, I.I. (Moscow)

SOV/24-58-9-19/31

TITLE: On the Flow of Gas in a Cylindrical Tube in the Presence of Friction and Heat Transfer (O techenii gaza v tsilindricheskoy trube pri nalichii treniya i teploobmena)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, 1958, Nr 9, pp 118 - 120 (USSR)

ABSTRACT: One dimensional flow of gas in a cylindrical tube in the presence of friction and heat transfer was considered by a number of authors (Ref 1-4). The majority of these papers were limited to numerical or approximate integration of the equations to which the problem may be reduced. Only in Refs 3 and 4 were accurate solutions obtained for the case of heat transfer through the wall of the tube. The present paper gives examples of accurate solutions and a method for numerical integration of the main equation. The problem is solved in the following cases: a) when the velocity or the kinetic energy density as a function of distance along the tube is given; b) when the reduced velocity is given as a function of distance along the tube.

Card1/2